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GAU 3732#3

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Substitute for form 1449A/PTO		MAY 03 1999 PATENT AND TRADEMARK OFFICE		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/241,181
				Filing Date	February 1, 1999
				First Named Inventor	Jon D. Kittelsen
				Group Art Unit	3732
				Examiner Name	Unknown
Sheet	1	of	8	Attorney Docket Number	90017-17

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A		D328,494		Allison Schwendeman	08-04-1992	RECEIVED MAY 06 1999 Group 3700
y		D343,928		Jon D. Kittelsen	02-01-1994	
1		D356,188		Jon D. Kittelsen	03-07-1995	
q		D373,421		Thomas J. Brown	09-03-1996	
7		D397,442		Jon D. Kittelsen	08-25-1998	
4		257,038		James McMann	04-25-1882	
q		1,117,928		Walter J. Thurmond	11-17-1914	
y		1,323,832		Isador Chige	12-02-1919	
u		1,461,209		Josiah S. Bridges	07-10-1923	
y		1,470,888		Victor C. Smedley	10-16-1923	
h		1,487,392		Peyton A. Lee	03-18-1924	
y		2,118,980		Howard Montgomery	05-31-1938	
4		2,257,709		Louis P. Anderson	09-30-1941	
h		2,423,005		Hyman F. Chaiken	06-24-1947	
u		2,630,117		Clarence F. Coleman	03-03-1953	
u		2,643,652		Jack F. Cathcart	06-30-1953	
u		2,659,366		Albert J. Savarese	11-17-1953	
u		2,669,988		Victor H. Carpenter	02-23-1954	
4		2,678,043		Emanuel Stark	05-11-1954	
u		2,694,397		Frederick W. Herms	11-16-1954	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
y		DE	480423		Dr. Karl Koneffke	08-02-1929	—	
		CA	1147-583		Gerald Dufour	06-07-1983	—	

Examiner Signature		Date Considered	7/29/99
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		Number	Kind Code ² (if known)			
4		2,702,032		Jack J. Freedland	02-15-1955	
4		2,708,931		Jack J. Freedland	05-24-1955	
u		2,750,941		Jack F. Cathcart	06-19-1956	
4		2,833,278		Harold M. Ross	05-06-1958	
9		2,847,003		Norman D. Helmer	08-12-1958	
a		2,966,908		Jack F. Cathcart	01-03-1961	
a		2,933,811		Herman M. Lifton	04-26-1960	
4		3,016,052		Louis L. Zubren	01-09-1962	
R		3,058,462		Louis L. Greenblum	10-16-1962	
4		3,073,300		Hyman H. Berqhash	01-15-1963	
2		3,082,765		Norman D. Helmer	03-26-1963	
4		3,107,667		Ernest R. Moore	10-22-1963	
U		3,124,129		Marc E. Grossberg	03-10-1964	
4		3,126,002		Herbert E. Owens	03-24-1964	
4		3,203,417		Norman D. Helmer	08-31-1965	
a		3,207,153		Sol Goldstein	09-21-1965	
u		3,223,085		Kenneth W. Gores	12-14-1965	
4		3,247,844		Hyman H. Berqhash	04-26-1966	
4		3,312,218		Alfred G. Jacobs	04-04-1967	
2		3,319,626		David K. Lindsav	05-16-1967	

FOREIGN PATENT DOCUMENTS

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Sheet	5	of	8
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		Number	Kind Code ² (if known)			
A		4,793,803		Martin G. Martz	12-27-1988	
q		4,799,500		Renton D. Newbury	01-24-1989	
a		4,810,192		Edward D. Williams	03-07-1989	
u		4,848,365		Clement A. Guarlotti	07-18-1989	
n		4,867,147		E. Wayne Davis	09-19-1989	
n		4,976,618		Kent Anderson	12-11-1990	
n		4,977,905		Jon D. Kittelsen	12-18-1990	
A		5,031,611		Randall C. Moles	07-16-1991	
a		5,031,638		Cosmo R. Castaldi	07-16-1991	
n		5,063,940		Loren S. Adell	11-12-1991	
n		5,076,785		Yu-Son Tsai	12-31-1991	
a		5,082,007		Loren S. Adell	01-21-1992	
a		5,112,225		Michael Diesso	05-12-1992	
A		5,117,816		Norman A. Shapiro	06-02-1992	
u		5,152,301		Jon D. Kittelsen	10-06-1992	
t		5,154,609		Peter T. George	10-13-1992	
n		5,165,424		Harvey N. Silverman	11-24-1992	
n		5,194,003		Gabriel L. Garay	03-16-1993	
A		5,194,004		Earl O. Bergersen	03-16-1993	
N		5,234,005		Jon D. Kittelsen	08-10-1993	

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 6 of 8

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First Named Inventor	Jon D. Kittelsen
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Group 3700

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		Number	Kind Code ² (if known)			
u		5,235,991		Sue A. Minneman	08-17-1993	
u		5,259,762		Christopher Farrell	11-09-1993	
u		5,277,203		Marvin B. Hays	01-11-1994	
u		5,293,880		Steven J. Levitt	03-15-1994	
u		5,297,960		William E. Burns	03-29-1994	
u		5,299,936		Masato Ueno	04-05-1994	
u		5,302,117		Jon Kraut	04-12-1994	
u		5,313,960		Barbara R. Tomasi	05-24-1994	
u		5,316,474		Walter H. Robertson	05-31-1994	
u		5,320,114		Jon D. Kittelsen	06-14-1994	
u		5,323,787		Andrea P. Pratt	06-28-1994	
u		5,336,086		Christian Simmen	08-09-1994	
u		5,339,832		Jon D. Kittelsen	08-23-1994	
u		5,353,810		Jon D. Kittelsen	10-11-1994	
u		5,365,946		Norm J.V. McMillan	11-22-1994	
u		5,385,155		Jon D. Kittelsen	01-31-1995	
u		5,386,821		Karl A. Poterack	02-07-1995	
u		5,401,234		Barry M. Libin	03-28-1995	
u		5,447,168		James J. Bancroft	09-05-1995	
u		5,460,527		Jon D. Kittelsen	10-24-1995	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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Sheet	7	of	8
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		Filing Date	February 1, 1999			
		First Named Inventor	Jon D. Kittelsen			
		Group Art Unit	3732			
		Examiner Name	Unknown			
Sheet	8	of	8	Attorney Docket Number	90017-17	
					MAY 06 1999	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Group 3700			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
4		American Dental Association, "Mouth Protectors: Give Your Teeth A Sporting Chance"	
1		"Muscular Strength Correlated to Jaw Posrue and the Temporomandibular Joint," Stephen D. Smith, D.M.D., NYS Dental Journal, Volume 44, No. 7, August-September, 1978	
2		"Reduction of Stress in the Chewing Mechanism - Part III", William B. May, D.D.S., Basal Facts, Volume 3, No. 1, pp. 22-28.	

Examiner Signature	<i>John R. Smith</i>	Date Considered	2/24/99
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